Deployable Joint Command and Control (DJC2)

CEAB

3 December 2003

Agenda

- **DJC2 JPO – Mr. Kirk Dye (TD &acting DPM)**
  - **Purpose**
  - **What is DJC2**
  - **Increment I KPPs**
  - **Acquisition Strategy Highlights**
  - **Programmatic Overview**

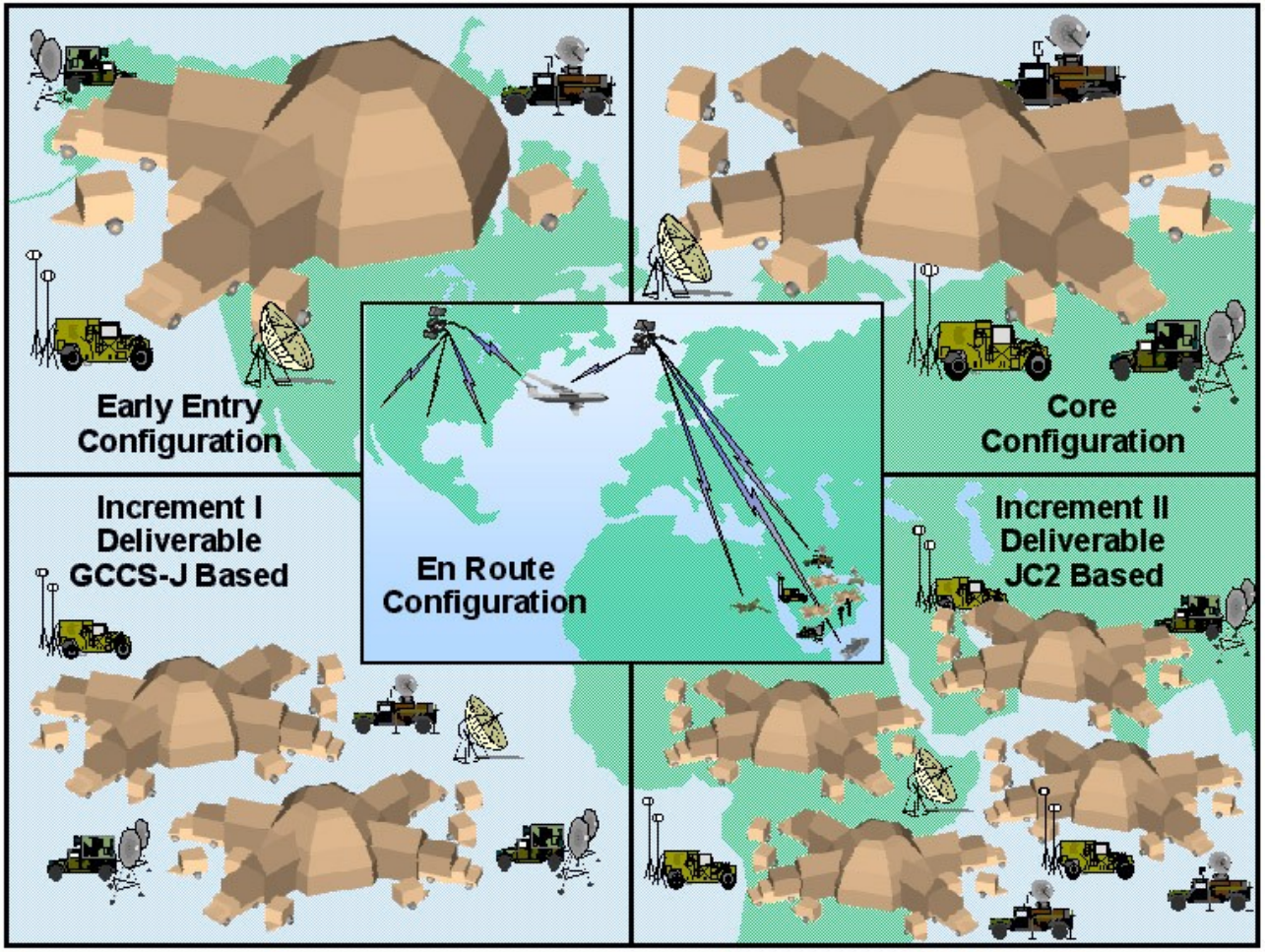
Why DJC2?

- **No standing or standardized deployable C2 capability exists for Regional Combatant Commanders (RCCs)**
  - **Current practice relies on ad hoc, piecemealed capabilities cobbled together at the last minute during a crisis**
- **Joint Force Commanders (JFCs) need a <u>responsive</u> and <u>deployable</u> joint C2 capability to provide**
  - **En Route and Early Entry C2 capability during initial phases of an operation**
  - **Core functionality once initial phases of operation transition to full JTF**
  - **Capability must include the equipment, facilities, and C2 applications and services**

Ad Hoc is not good enough.

References: McCarthy Transformation Study Brief (Jun 01), Program Budget Decision 817 (Jun
Planning Guidance 2003-2007, DJC2 Mission Needs Statement (25 Feb 02), DJC2 ORD

What is DJC2?



- System based on "Core" 60-seat configuration
  - Multiple Cores can be combined for large-scale operations
  - Nested within each Core is capability for smaller-sized En Route and Early Entry operations

DJC2 is an evolutionary acquisition program with an incremental approach that provides an integrated, deployable package of Joint C2 capability

What is DJC2?

- **Structures**
  (All requirements met in initial release)

Modular and scalable tents
Rigid wall shelters

- **Transportability**
  (All requirements met in initial release)

80% of IT equipment one-man portable
Transportable via fixed-wing aircraft

- **Power/Environmental Control**
  (All requirements met in initial release)

Power generation
Power distribution
Power-back-up system
Surge protection

- **Communications**
  (En Route, Early Entry and Core requirements met) SECOMP-I

En Route	Early Entry	Core
• TACSAT	• TACSAT	• TACSAT
• INMARSAT	• INMARSAT	• INMARSAT
• Secure HF	• Secure HF	• Secure HF
	• Global cellular	• Global cellular
		• JCSE/theater assets-provided services
		• DSN/DSRN/NSTS

- **Networks**
  (Independent networks)
  (All requirements met in initial release)

5 separate networks (SIPRNet, NIPRNet, JWICS, coalition network, internet)

VTC (JWICS/SIPRNET)

- **Mission Area Capabilit**
  (To be provided by GCCS-J, CIE, and other C2 apps)

What is DJC2?

Increment I: Key Performance Parameters (KPPs)

- **Interoperability**
  - **100% Top Level Critical IERs (Threshold)/100% Top Level IERs (Objective)**
    - **RCC/component/service information sharing**
    - **Interagency information sharing**
    - **Multinational information sharing**

Preparing for a Net Ready Approach to Interoperability

- **Information Assurance**
  - **Multiple security levels information exchange**
  - **Security domains and special handling services**
- **Deployable, modular, and scaleable** ***(air, land, sea configurable)***
  - **Transport and deployment**
  - **Modular and scaleable**
  - **Assembly**
  - **Marshalling – movement to and loading onboard aircraft**
- **Collaborative Information Environment**
  - **Common Operational Picture (COP)**
  - **Synchronous collaboration**

DJC2 Acquisition Strategy Highlights

- **Evolutionary Acquisition in three increments:**
  - **Increment I is GCCS-J 4.x based and spans FY04-FY07**
  - **Increment II is JC2-based and has MS B planned for FY 06**
  - **Increment III adds a Maritime Version and has MS B planned for FY07**
- **Increment I**
  - **Integrated by Government**
  - **Based on GCCS-J 4.x**
  - **Provides ORD threshold capability in 5 spirals (1.0 - 1.4)**
    - **DJC2 spiral releases will be synchronized to GCCS-J (4.0 - 4.3) releases**
    - **Fully deployable DJC2 infrastructure capability, GCCS-J 4.0, and CIE Tools 1.0 provided in the first spiral (DJC2 1.0)**
    - **RCC deliveries will be upgraded to the latest spiral release**
    - **Long-lead item IPR scheduled for Apr 04**
    - **MS C scheduled for Sep 04 approving system delivery schedules:**
      - **PACOM (FY05), CENTCOM (FY05), EUCOM (FY06), and SOUTHCOM (FY07)**

DJC2 threshold requirements satisfied by end of Increment I

What is DJC2?

Modular, scaleable, deployable Joint C2 system for RCC JTF operations

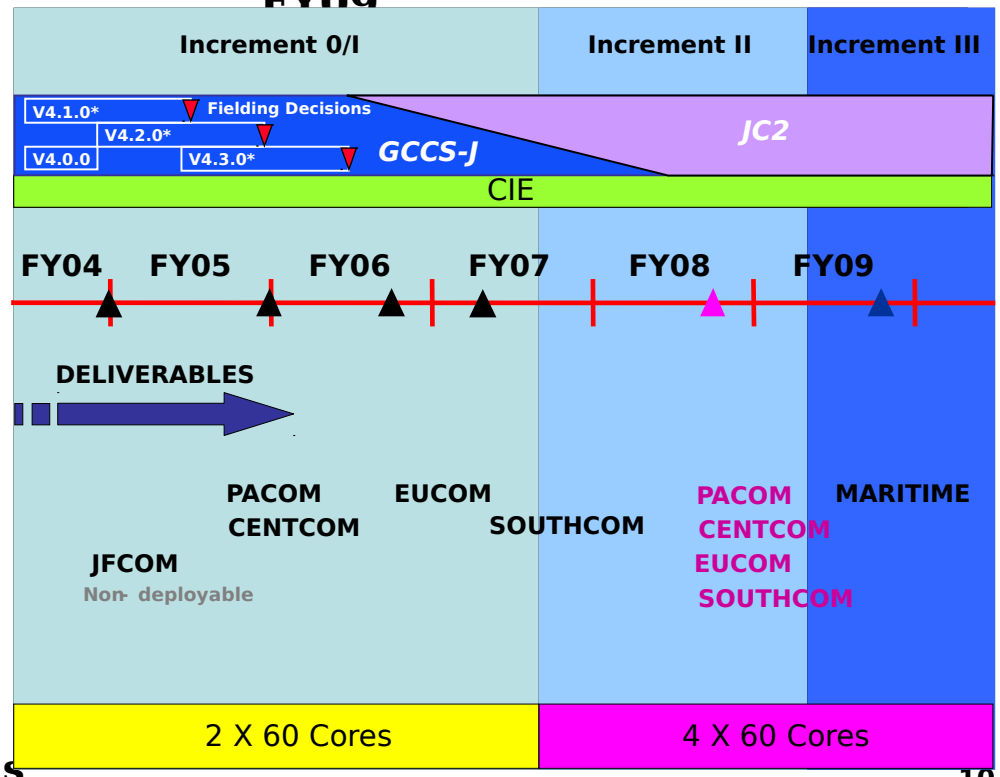
- DJC2 system components:
  - C2 S/W apps
  - Information Technology (IT) H/W (laptops, servers, displays, peripherals, network routers, and security components)
  - Infrastructure support (IS) H/W (power, environmental control units, shelters, and furniture)
  - Mobility components (containers, transit cases, and pallets)
  - Limited organic En Route and Early Entry communications capabilities

- DJC2 design:
  - System based on "core" 60-seat configuration
  - Multiple cores can be combined for large-scale operations
  - Nested within each core is capability for smaller-sized En Route and Early Entry operations

Incr I: 2 GCCS-J based cores to 4 RCCs by FY07

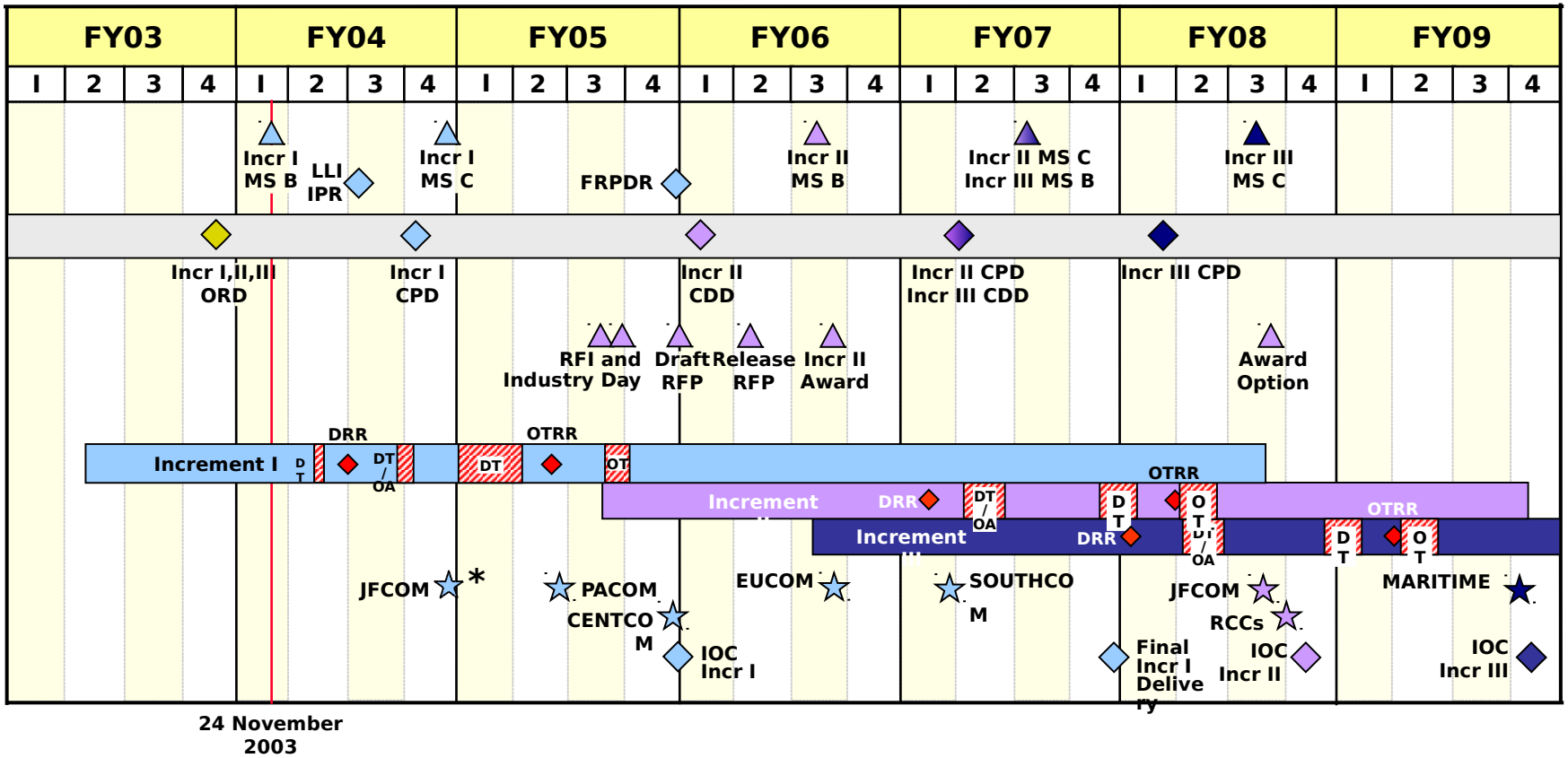
Incr II: 4 JC2 based cores to 4 RCCs by FY08

Incr III: JC2 based Maritime Version FY09



* Source: GCCS-J Draft SAMP For BLK V

Program Schedule

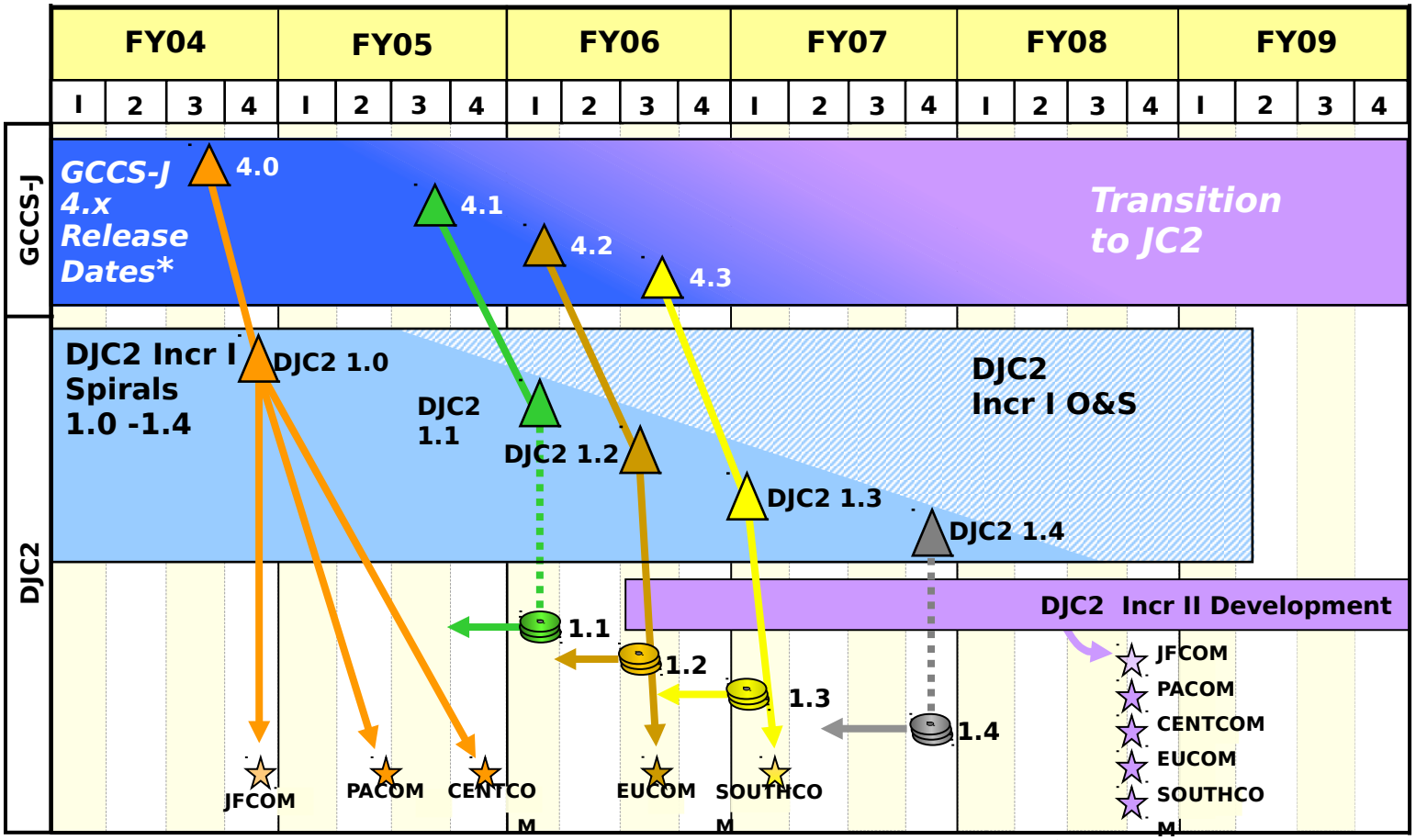


LLI-Long Lead Item IPR-In-Process Review FRPDR-Full Rate Production Design Review ORD-Operational Requirements Document CPD-Capabilities Production Document
CDD-Capabilities Development Document RFI-Request for Information
RFP-Request for Proposal DRR-Design Readiness Review
DT-Developmental Testing OT-Operational Testing OTRR-Operational Testing Readiness Review IOC-Initial Operating Capability RCC – Regional Combatant Commander

* The JFCOM System will consist of 60 workstations with no deployability items

★ System deliveries

Increment I: GCCS-J and DJC2 Spiral Integration



RCCs receive subsequent DJC2 software releases

System deliveries

Release dates

Software to fielded RCC

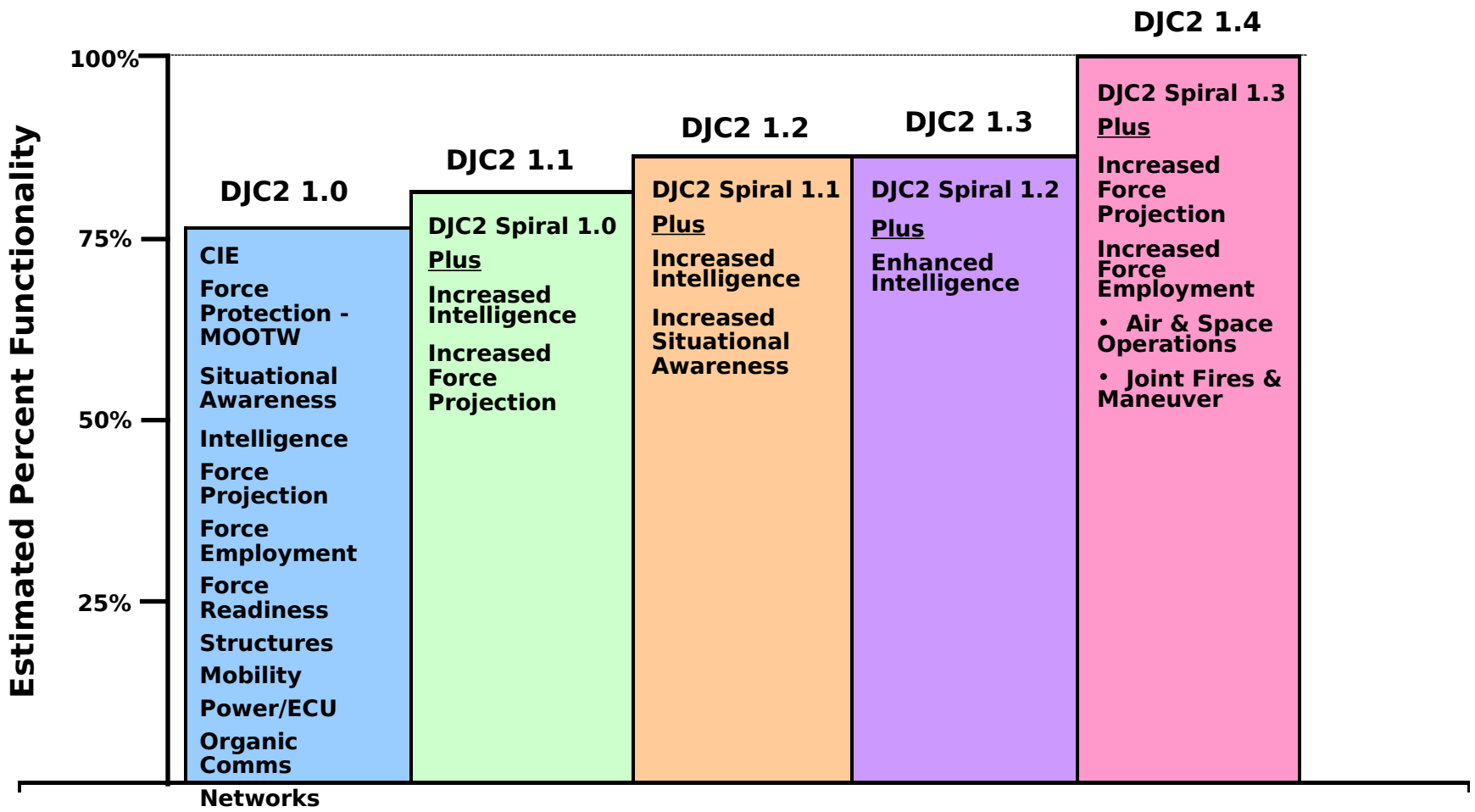
* Source: GCCS-J Acquisition Program Baseline for BLK V

REV 31

Upcoming Events

- Prototype development underway (Delivered to SOUTHCOM this week)
- Observation & Support of Terminal Fury (PACOM) – work-up & equipment
- Participation in Blue Advance (SOUTHCOM) & work-up Purple Hurry
- ITAB (MS B) tentatively scheduled for 9 Dec 03

DJC2 Spiral Mission Area Capabilities



DJC2 Spirals

Requirements Mapped to Spirals

- Requirements Traceability Matrix (RTM)
  - Provides an end user-and sponsor-endorsed roadmap of the JPO's time-phased, KPP satisfaction across Increment I's five spirals
  - Provides solutions
    - Broken down by spirals
    - Lists candidate solutions for Spiral 1.4
  - User acceptance critical
    - JBMC2 BoD reviewed and provided feedback
    - Participated in process for prioritizing and addressing mission area capability "gaps" for DJC2 JPO
      - JBMC2 BOD 5 December 03 for prioritization of remaining non-GCCS-J requirements
  - Approved by OPNAV N61 and JFCOM (J8)

Test Strategy

- Leverages previous and ongoing Government test and evaluation
  - Focus on integration
  - Will not re-test/re-certify systems
- Capitalizes on the DJC2 Engineering Test Facility for multiple test phases
- Testing integrated and aligned with acquisition strategy/decisions
  - Long Lead IPR - DT of deployment infrastructure
  - MS C - DT/OT of initial integrated IT elements
  - Post MS C
    - DTs for En Route, Early Entry, and Core configurations
    - IOT&E of production representative configurations during a PACOM Joint exercise
- Uses a Combined Test Force
  - Early and continuous involvement
  - PM team, DT and OT testers, JITC, and JFCOM JBC
  - IOT&E team from all Service OTAs

Contracting Approach

- DJC2 will leverage existing GOTS and COTS for software, hardware, infrastructure and deployability items – no new developments; basically a complex H/W & applications systems engineering & integration effort
- Increment I uses competitively awarded contracts (e.g., NAVSEA Multiple Award Contracts)
  - FY04 spend plan: 78% of funds will be awarded to industry via these existing contractual vehicles
  - Delivery orders will be spiral-based
- Increment II
  - Contracting plan will be presented at Increment I Milestone C
  - Tentative planning dates if competed
    - RFI and industry day planned for 3QFY05
    - Draft RFP release 2QFY06
    - Contract award 3QFY06 after Increment II MS B

Support Strategy

- Life cycle support will leverage existing support and training structures of hardware and applications in operational use
- Same DJC2 release will be fielded at all RCCs using strict configuration management process
- Training will be conducted on delivered systems
- Help desk support will be provided in three tiers
  - Tier 1 -- Local administrator at RCC
  - Tier 2 -- GCCS-J JOSC for GCCS-J/DISA software issues (proposed)
  - Tier 3 -- EOSC 24/7 help desk for DJC2-unique hardware/software issues
- Will minimize manpower and personnel skill level requirements for cross-functional operations and maintenance

Backups

Overarching Issues

- **Manpower**
  - **DJC2 IT Equipment Maintainers:** JS submitted BCP for contractors; JFCOM developing POA&M
  - **JFCOM DJC2 Trainers:** JFCOM responsibility
  - **DJC2 Functional Operators:** Updating DJC2 CONOPS
- **Communications:** DSC study on-going
- **Transportation:** IDA study on-going; JS submitted BCP
- **Scope:** IDA study on-going
- **Trade-off of Forward Capability versus Reliance on Reachback Capabilities:** Participating in DCIO Reachback initiative
- **DJC2 and GCCS-J/JC2 Requirements Synchronization and Alignment:** DoN review on-going
- **RCC O&M Sustainment:** JS submitted BCP

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Risk

Risks	Rating: Before Mitigation	Rating: After Mitigation	Mitigation
Funding Stability	M	L	• JFCOM/DoN/JPO coordinated information strategy & responses to OSD/OMB/Congress queries
Ambiguous Requirements in the ORD	M	L	• JPO clarification process functioning • Will address in subsequent CPD/CDD
Derived Requirements and Plans Instability	M	L	• Schedule integration with GCCS-J; DJC2 Incr I capability is defined
	H	M	• Schedule integration with SECOMP-I
Aggressive Program Delivery Schedule for Increment I Spiral 1.0-1.1	M	M	• Common Baseline in close coordination with GCCS-J • Support agreement GCCS-J • Early & frequent risk reduction T&E events
	H	M	• Support agreement SECOMP-I • Early & frequent risk reduction T&E events
Security and Information Assurance	M	L	• Physically separated security classification networks • Security assessment for each increment • Accreditability is go/no-go criteria for application inclusion • Common Baseline with GCCS-J
Complex Organizational Relationships and Dependencies	M	M	• Support agreements with DISA, Services & JFCOM on DJC2 roles/responsibilities • Liaison personnel exchange with JFCOM & GCCS-J PO • JCS/JS/JFCOM share rqmts responsibility for GCCS-J & DJC2
JFCOM Training System	M	L	• Use combination of JFCOM and RCC systems for training
JPO Military Manning	L	L	• Added support from CSS or contractors to bridge until military assigned and report

Documentation Status

Document Name	JPO	Navy	JFCOM	OSD	Comment
Acquisition Program Baseline (APB)	C/A	IR	C/A		Approval for MS B
Acquisition Strategy	C/A	IR	C/A		Approval for MS B
Economic Analysis (EA)	C/A	N/A	N/A	N/A	Approved
Cost Analysis Requirements Document (CARD)	C/A	N/A	N/A	N/A	Approved
Clinger Cohen Act (CCA) Compliance	C/A	C/A	N/A		Concurrence for MS B
C4I Support Plan (C4ISP)	C/A	IR	N/A		Stage III Staffing
Program Protection Plan (PPP)	C/A	N/A	N/A	N/A	Approved
Test & Evaluation Master Plan (TEMP)	C/A	C/A	C/A		Estimated Approval by December 20

C/A **Complete/ Approved**

IR **In Review Awaiting Signature**

N/A **Not Applicable**